

FIG. 1

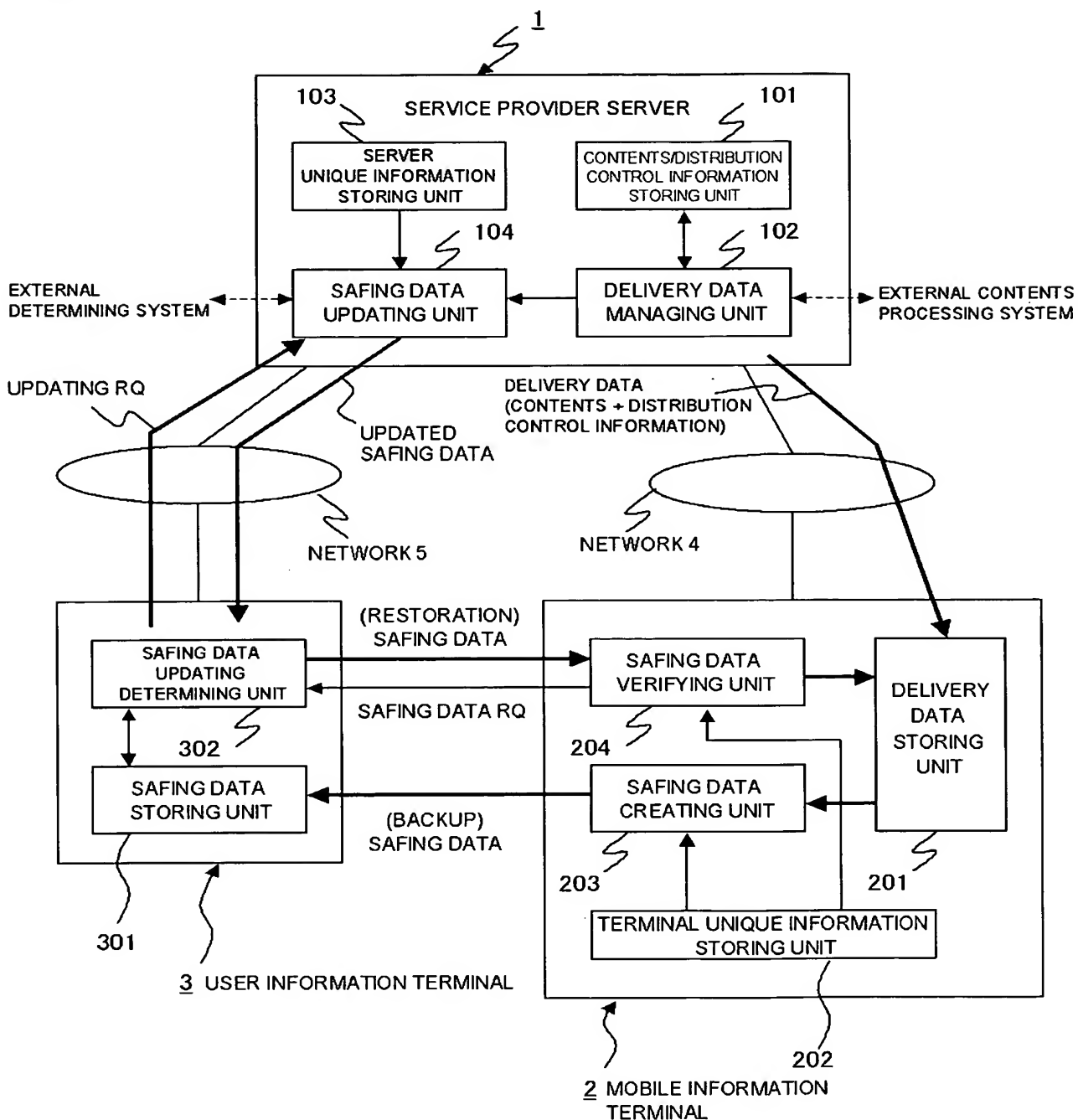


FIG. 2

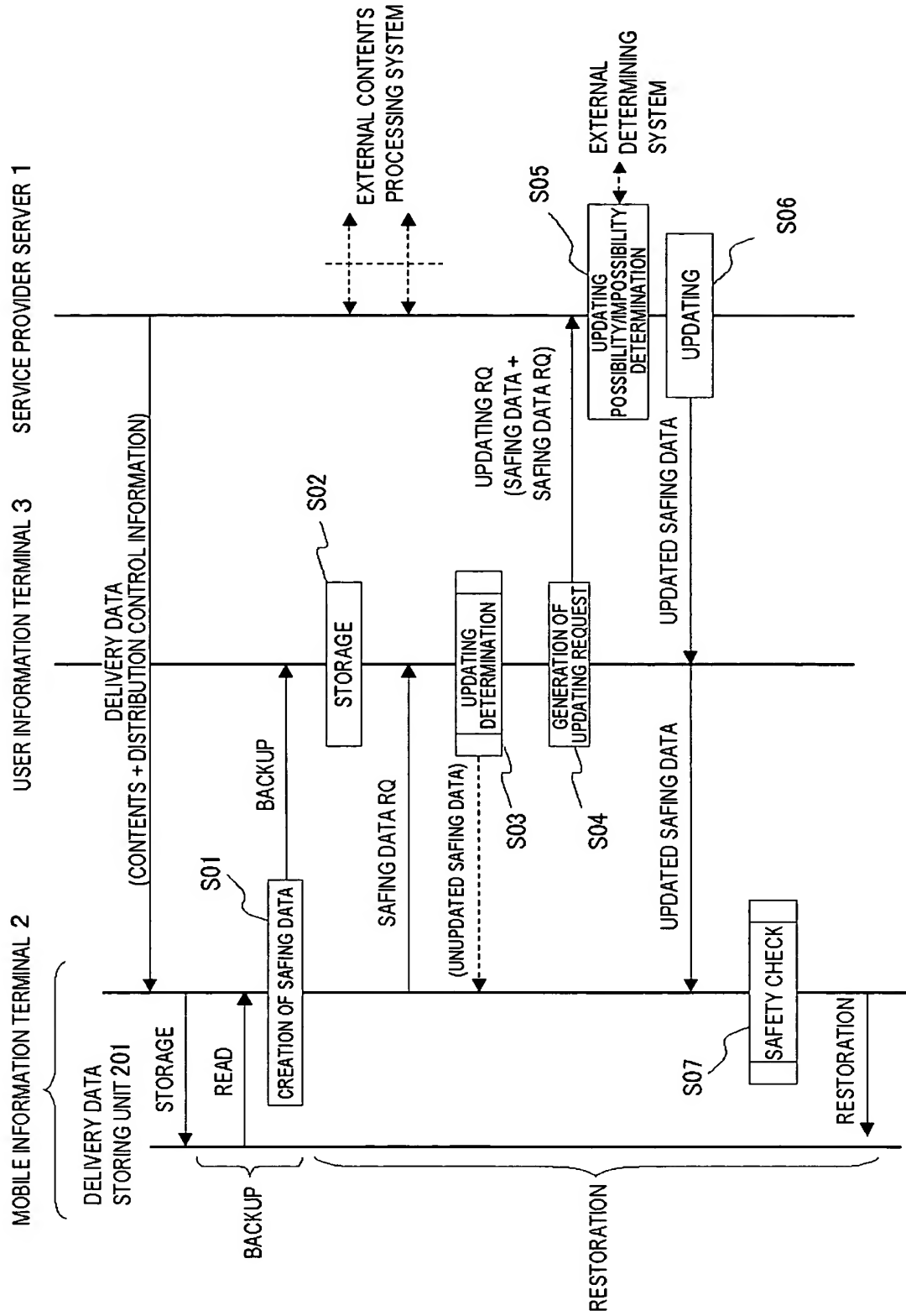
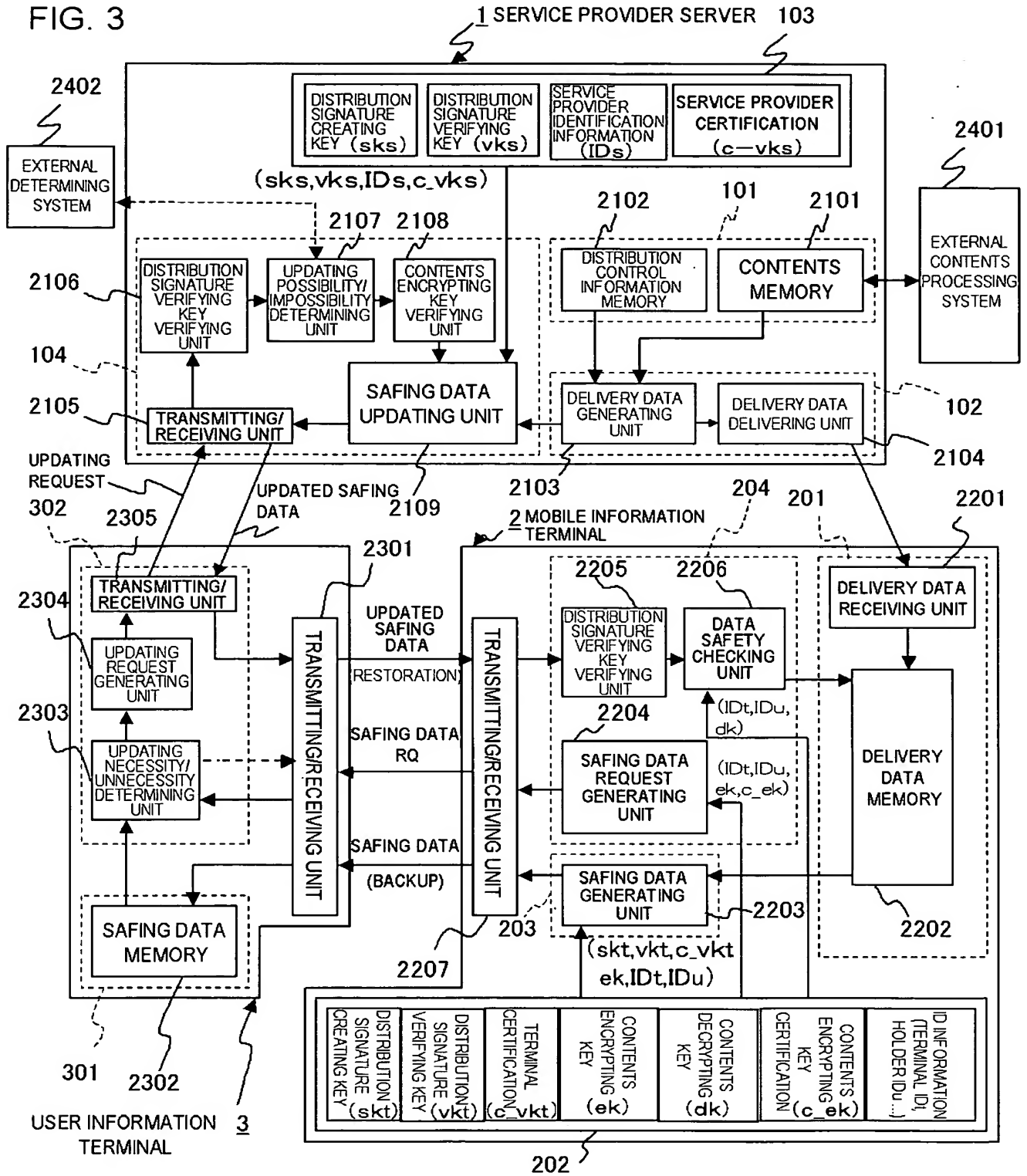


FIG. 3



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FIG. 4

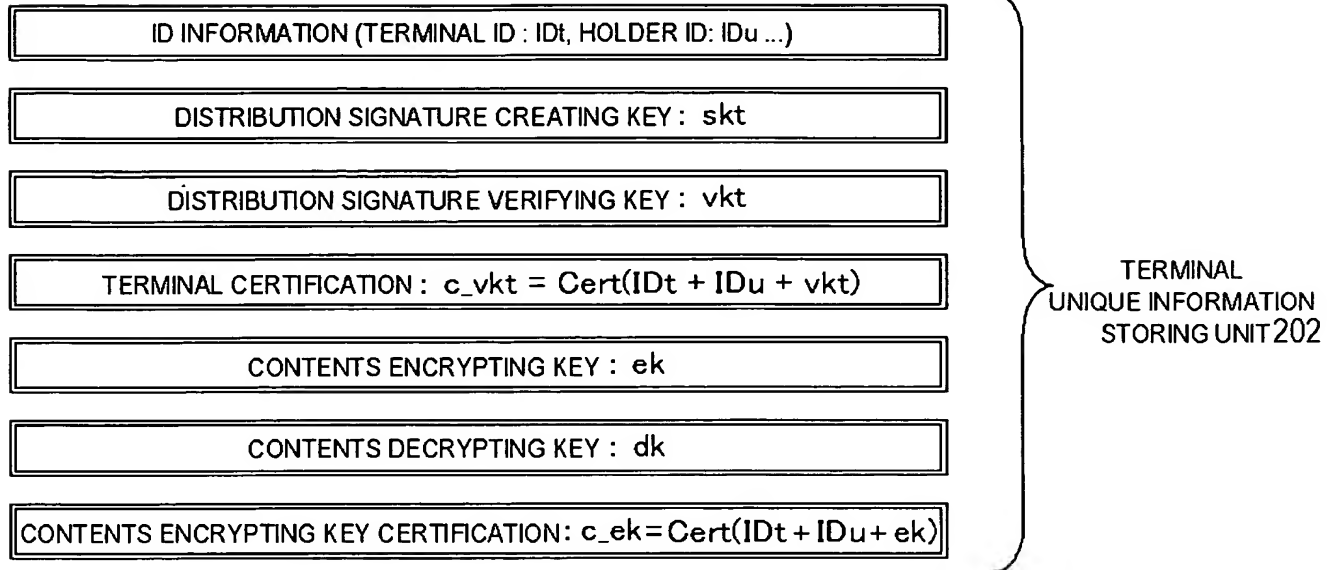


FIG. 5

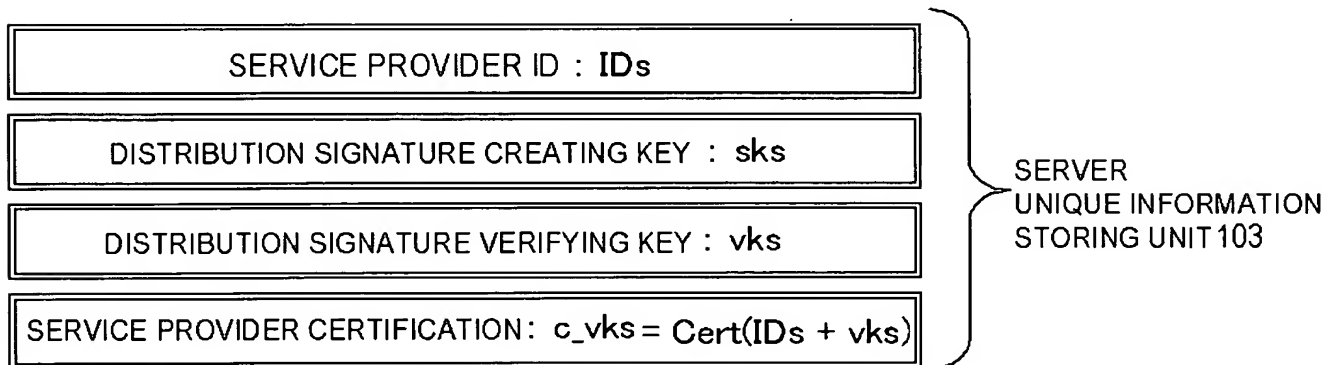
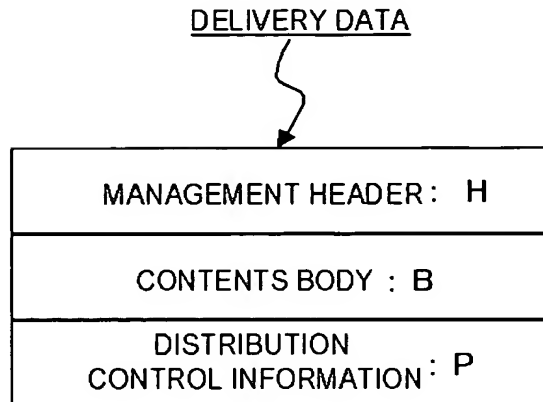
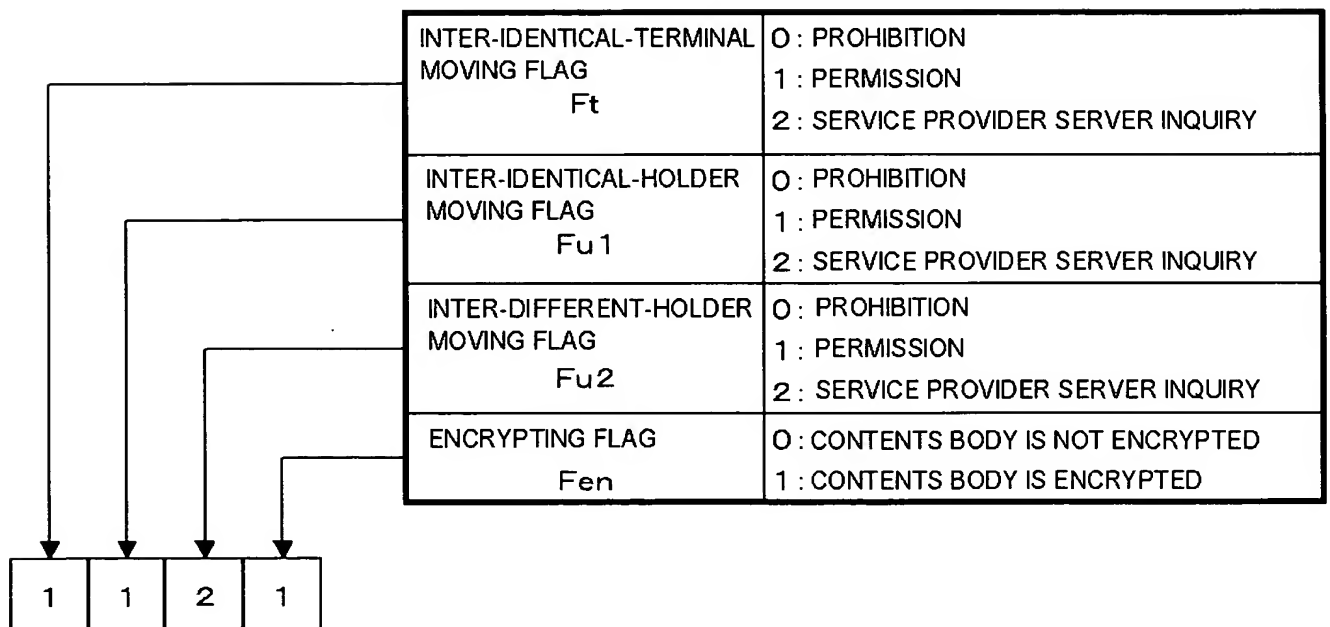


FIG. 6 (A)



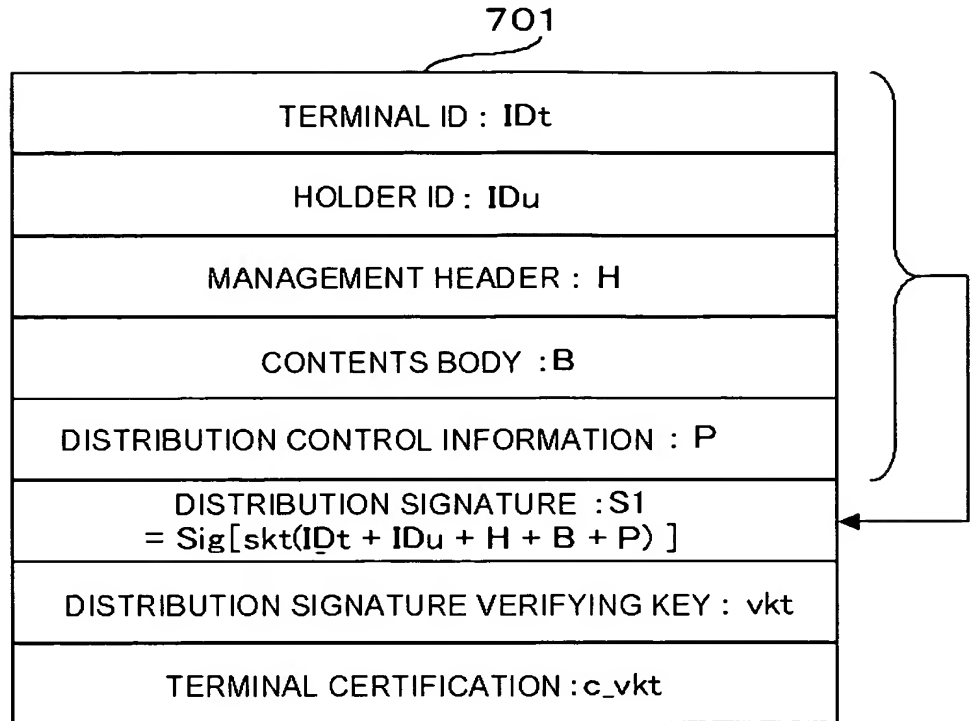
(B)



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FIG. 7

(A) SAFING DATA



(B) SAFING DATA DESIGNATED TO BE ENCRYPTED 702

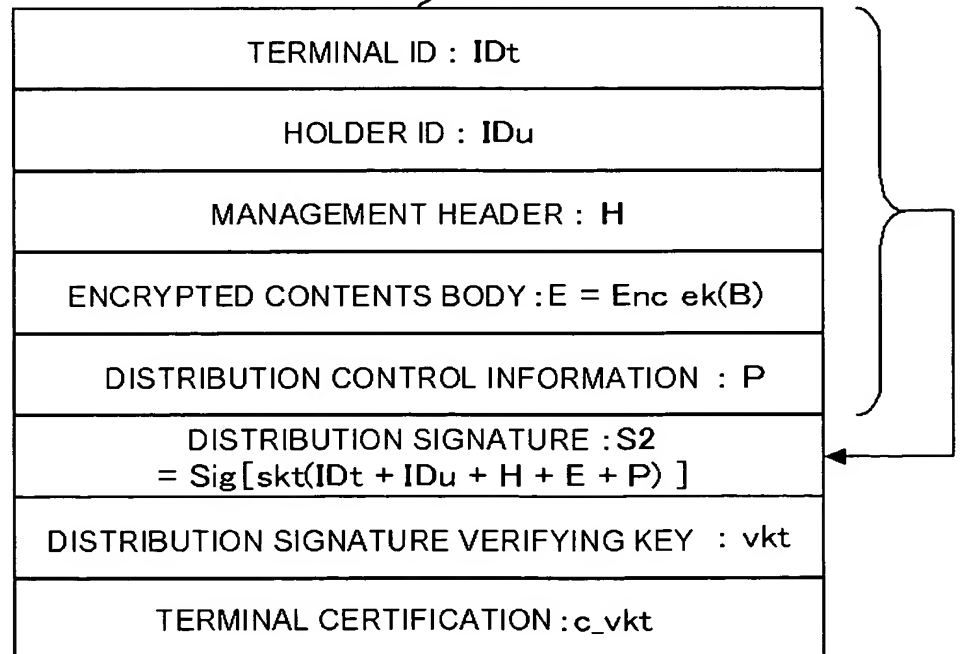



FIG. 8

SAFING DATA REQUEST



| |
|---------------------------------------------------|
| TERMINAL ID : ID_t' |
| HOLDER ID : ID_u' |
| CONTENTS ENCRYPTING KEY : ek' |
| CONTENTS ENCRYPTING KEY CERTIFICATION : c_{ek}' |

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FIG. 9

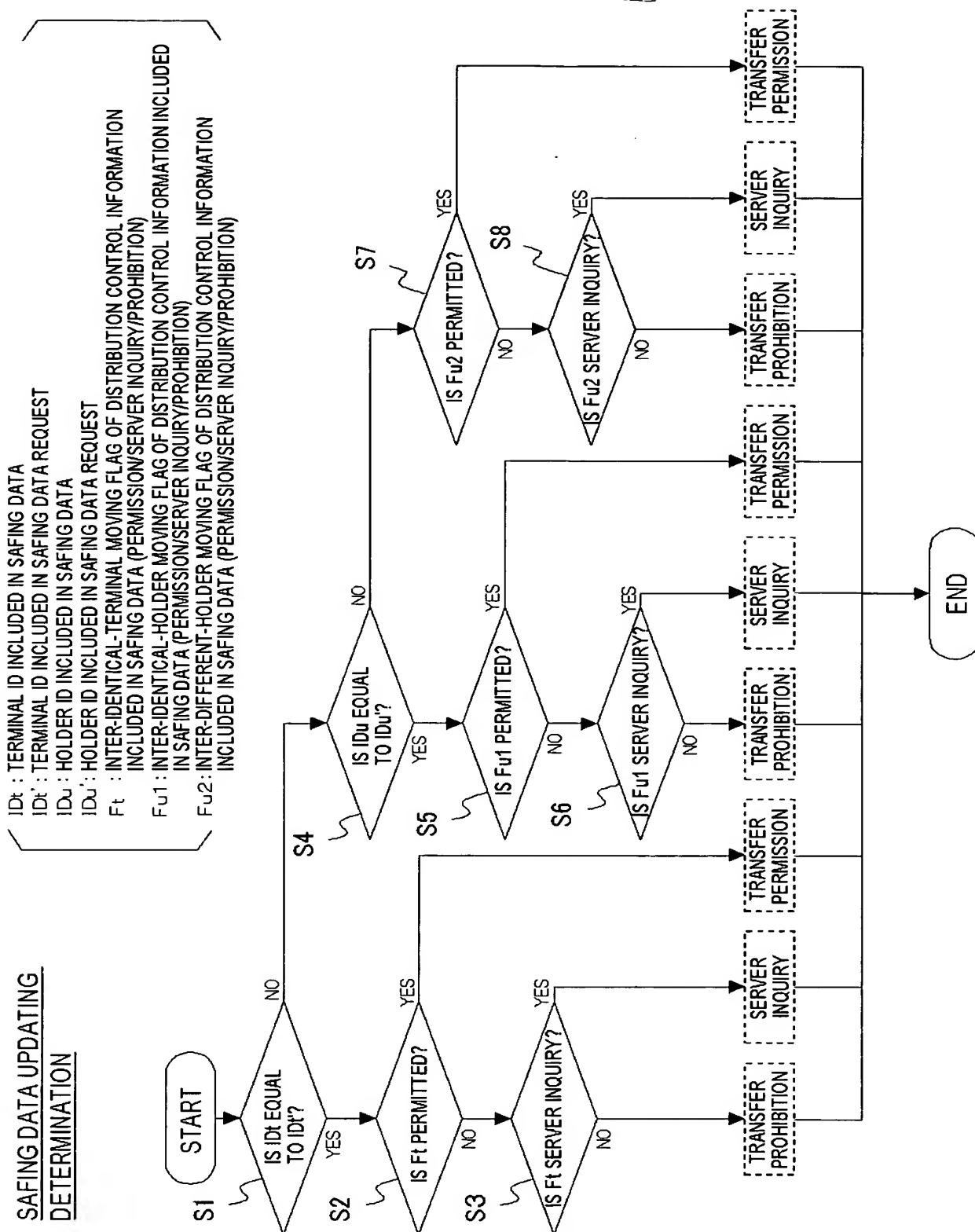


FIG. 10

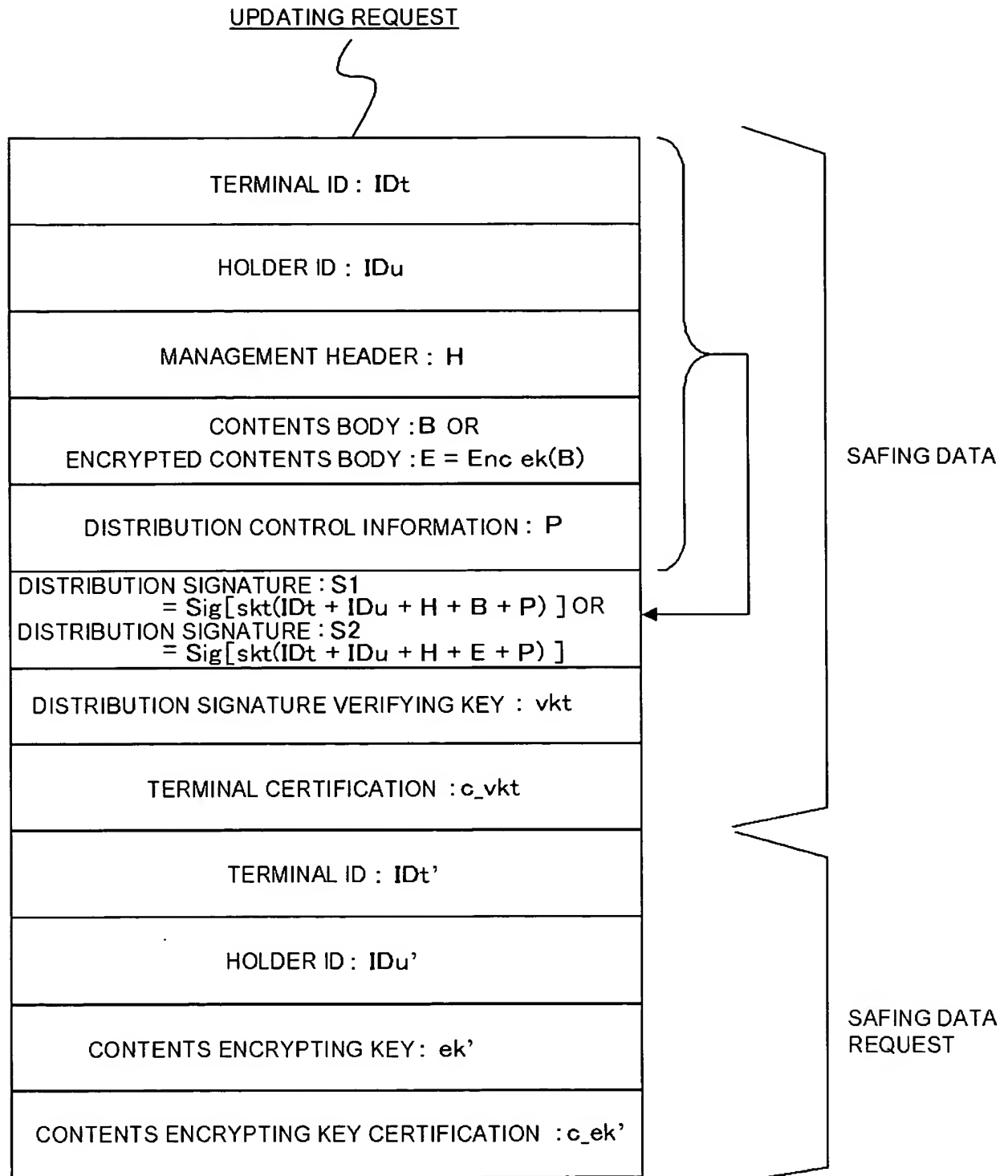
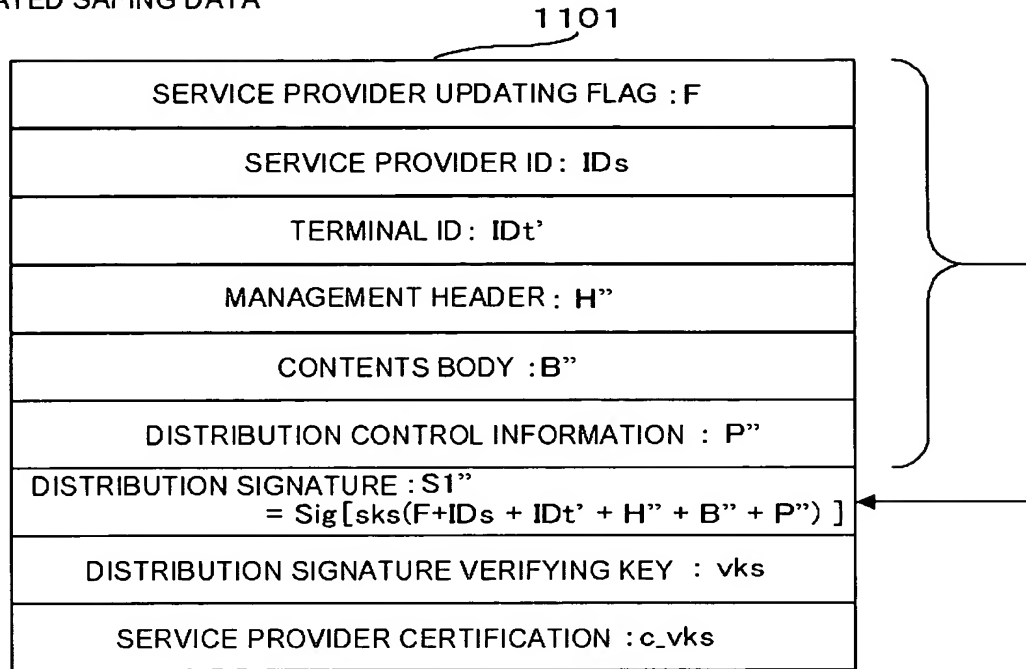


FIG. 11

(A) UPDATED SAFING DATA



(B) UPDATED SAFING DATA DESIGNATED
TO BE ENCRYPTED

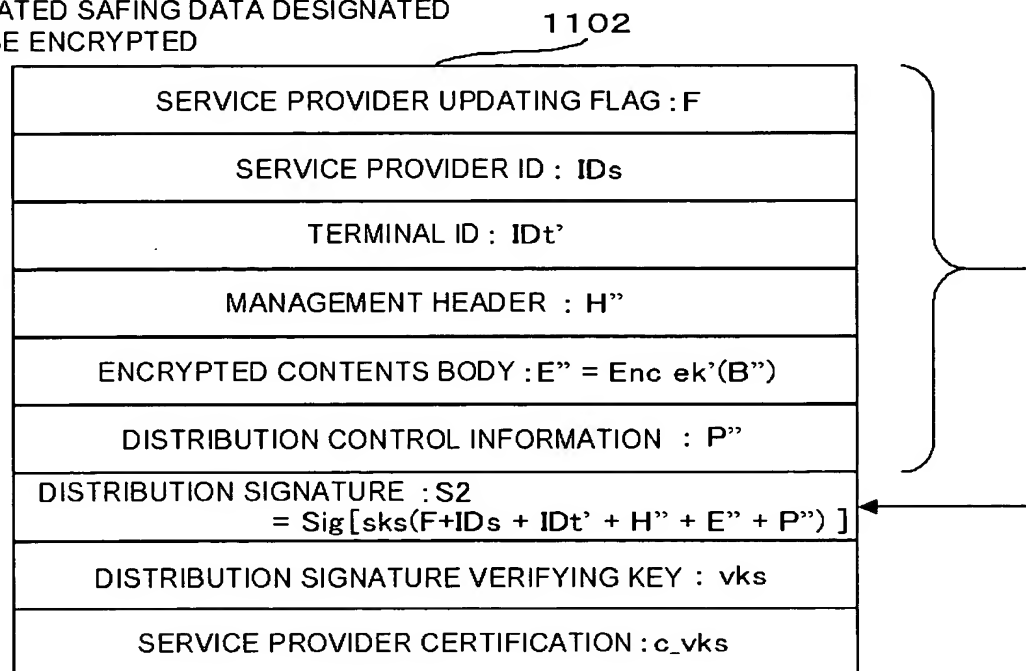


FIG. 12

DATA SAFETY CHECK

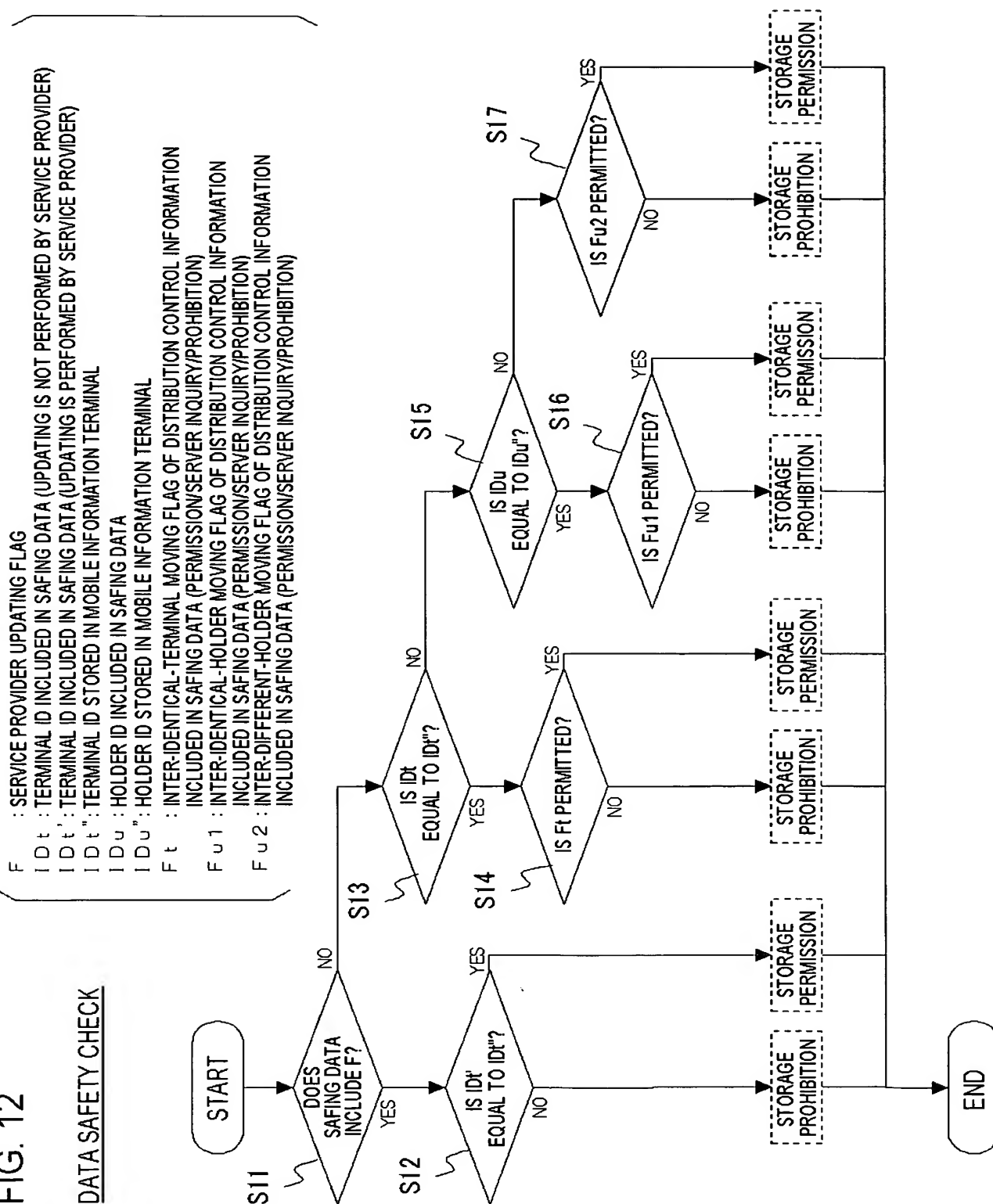


FIG. 13

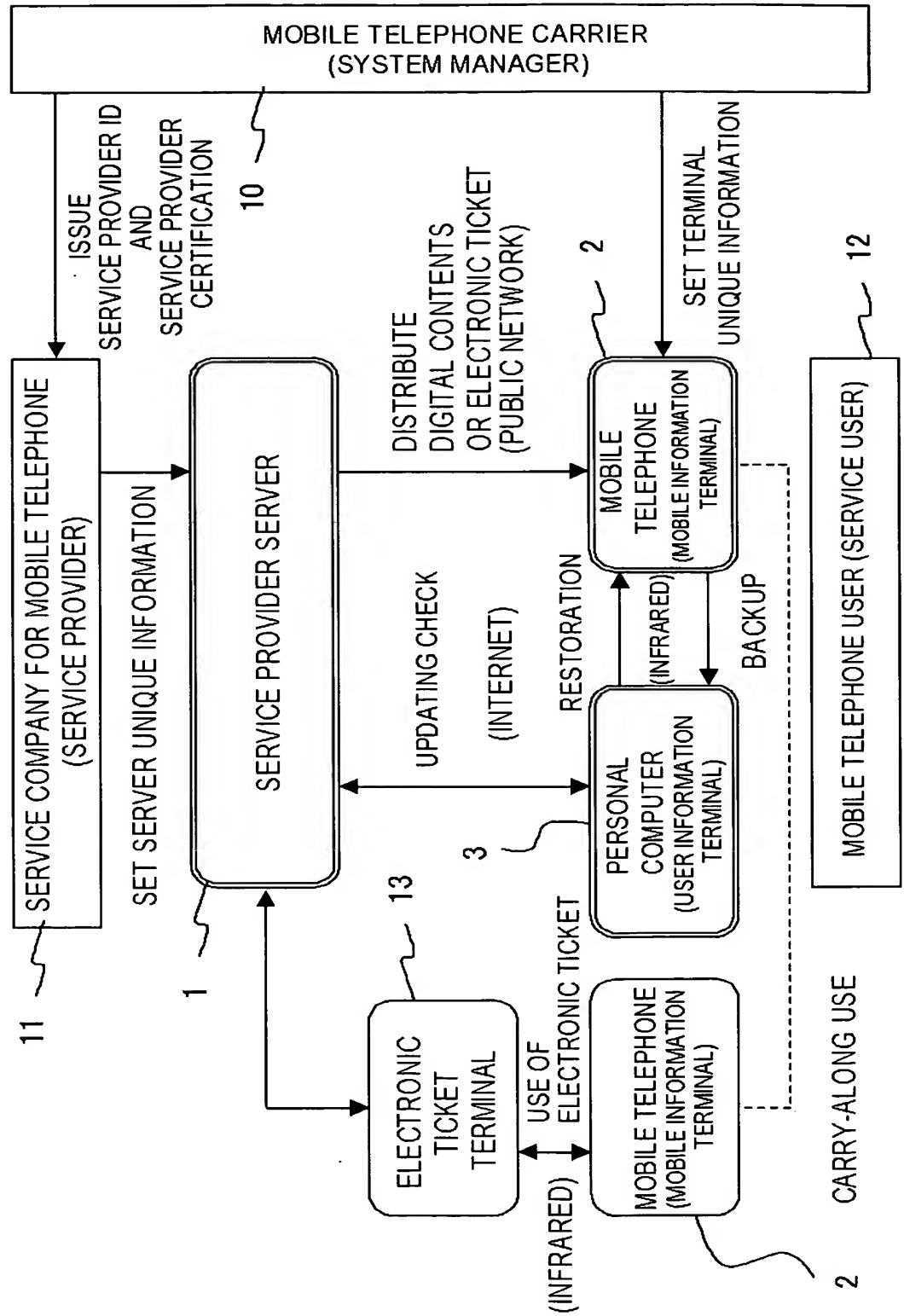


FIG. 14

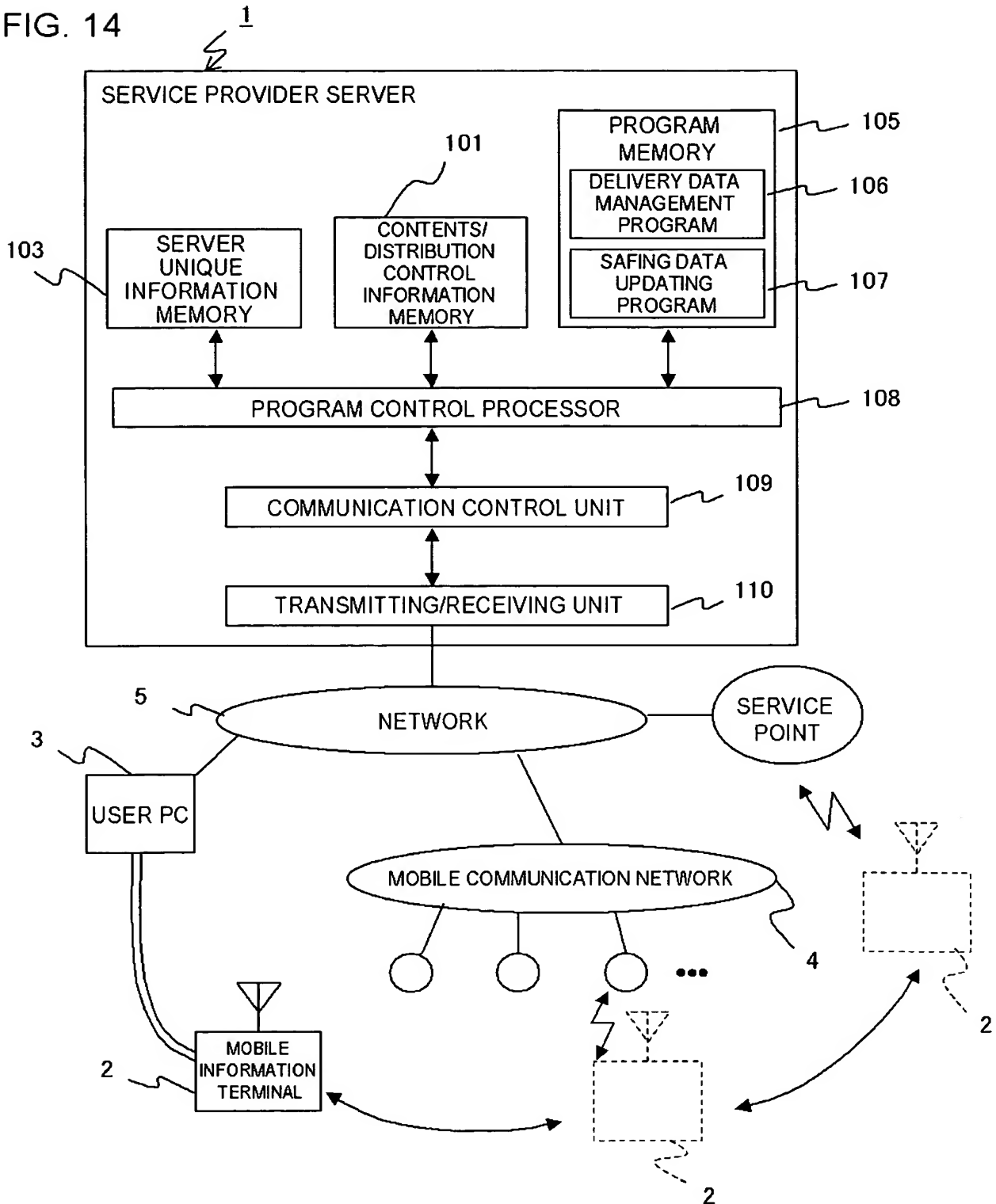


FIG. 15

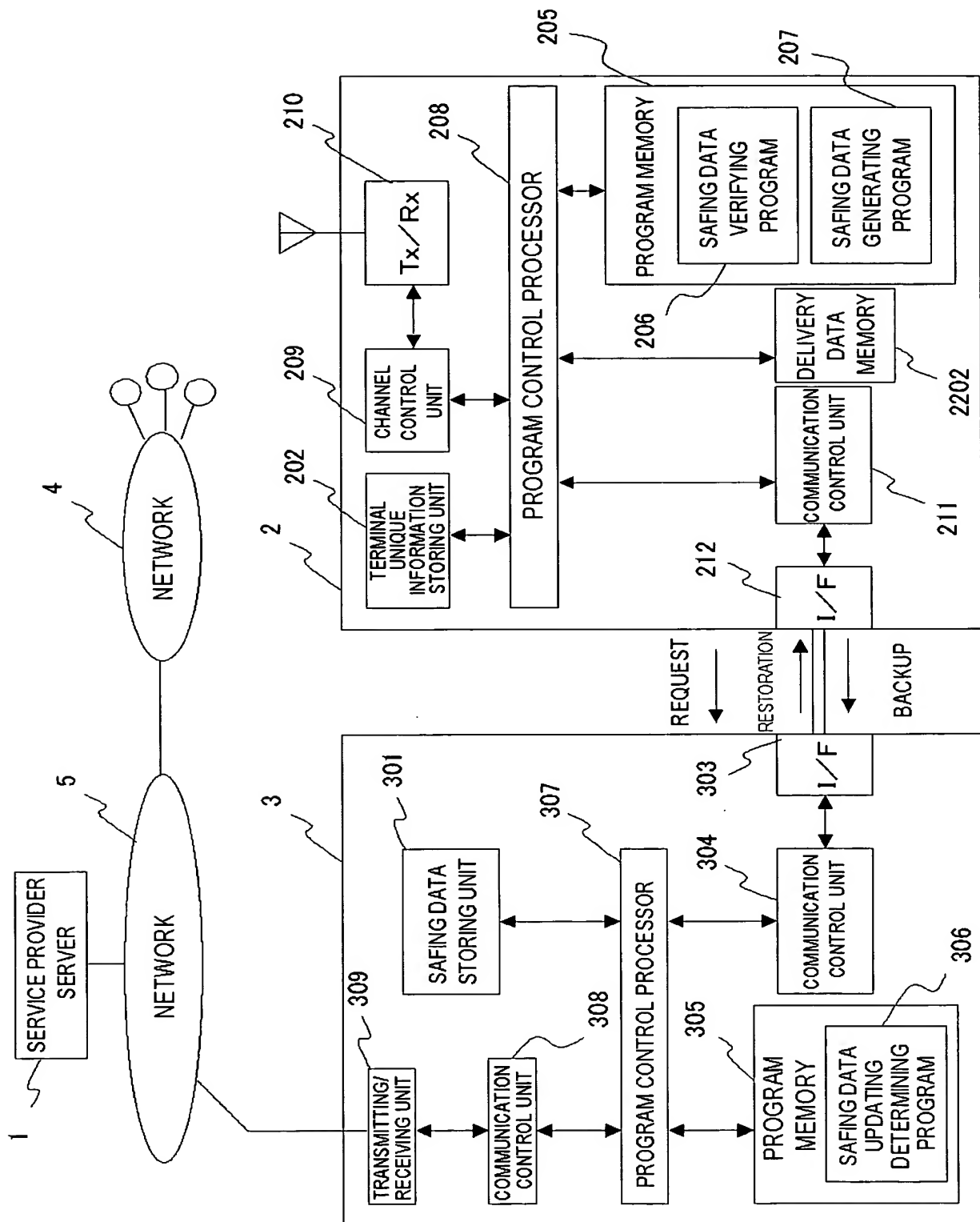


FIG. 16

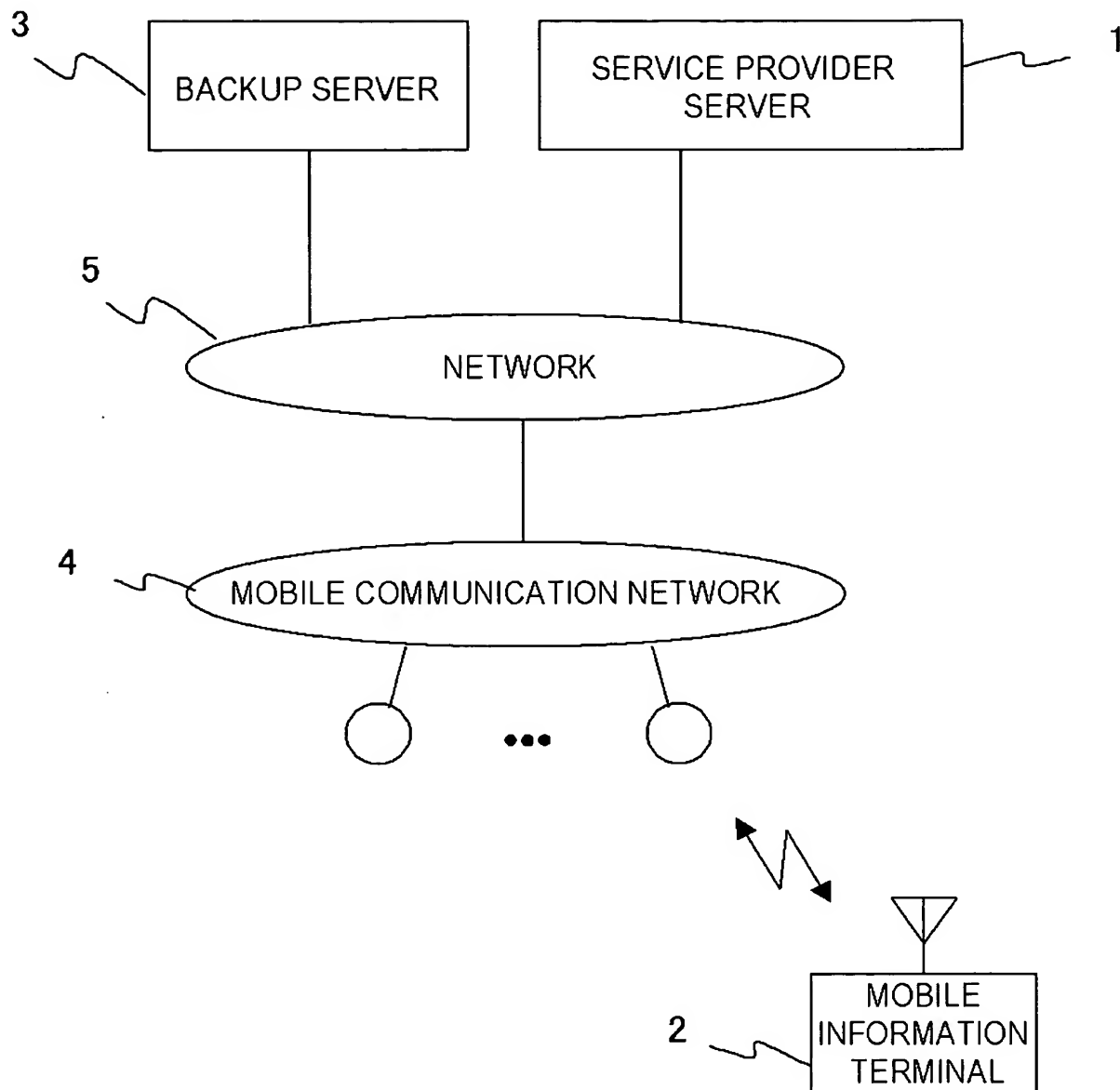
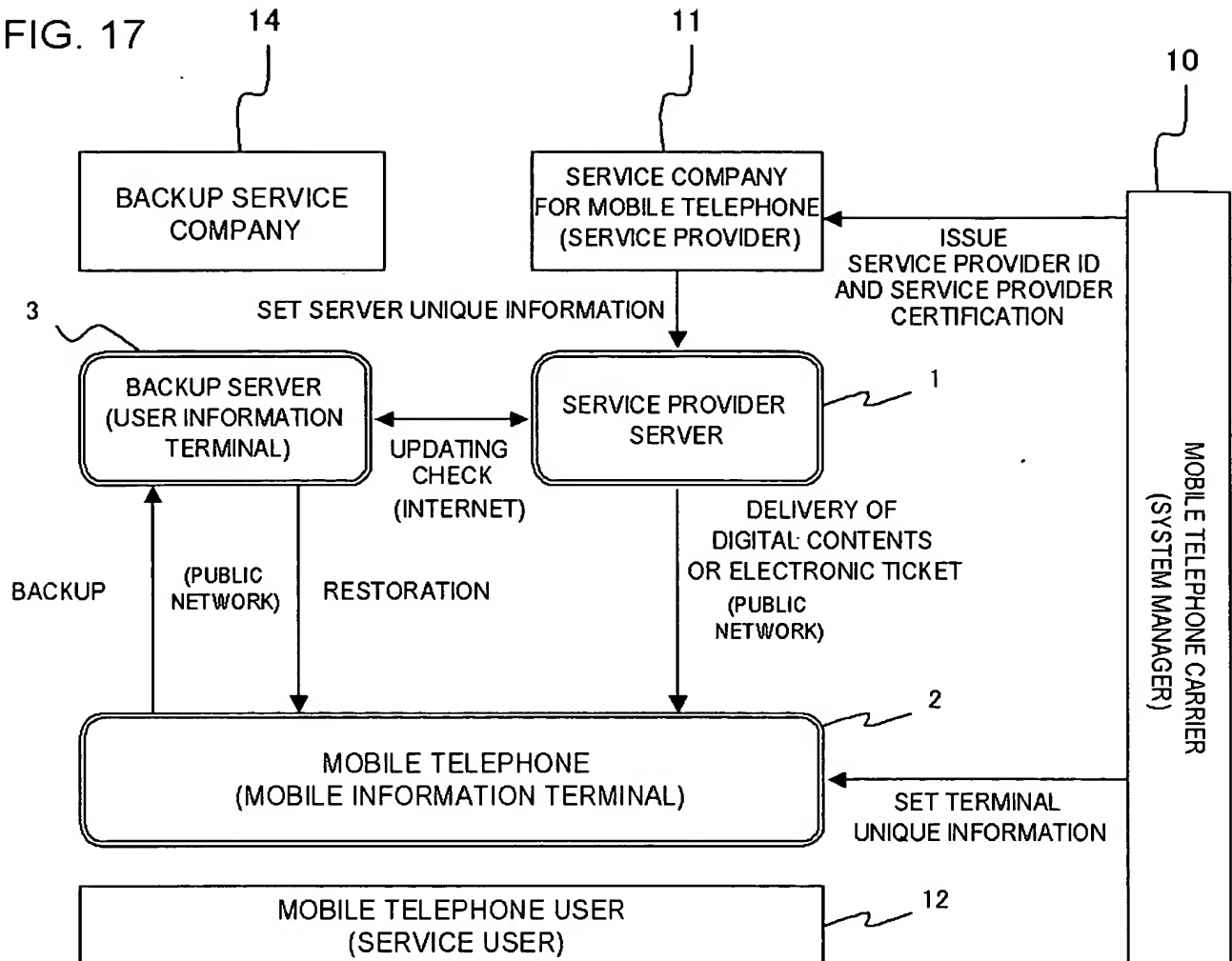


FIG. 17



1  SERVICE PROVIDER
SERVER

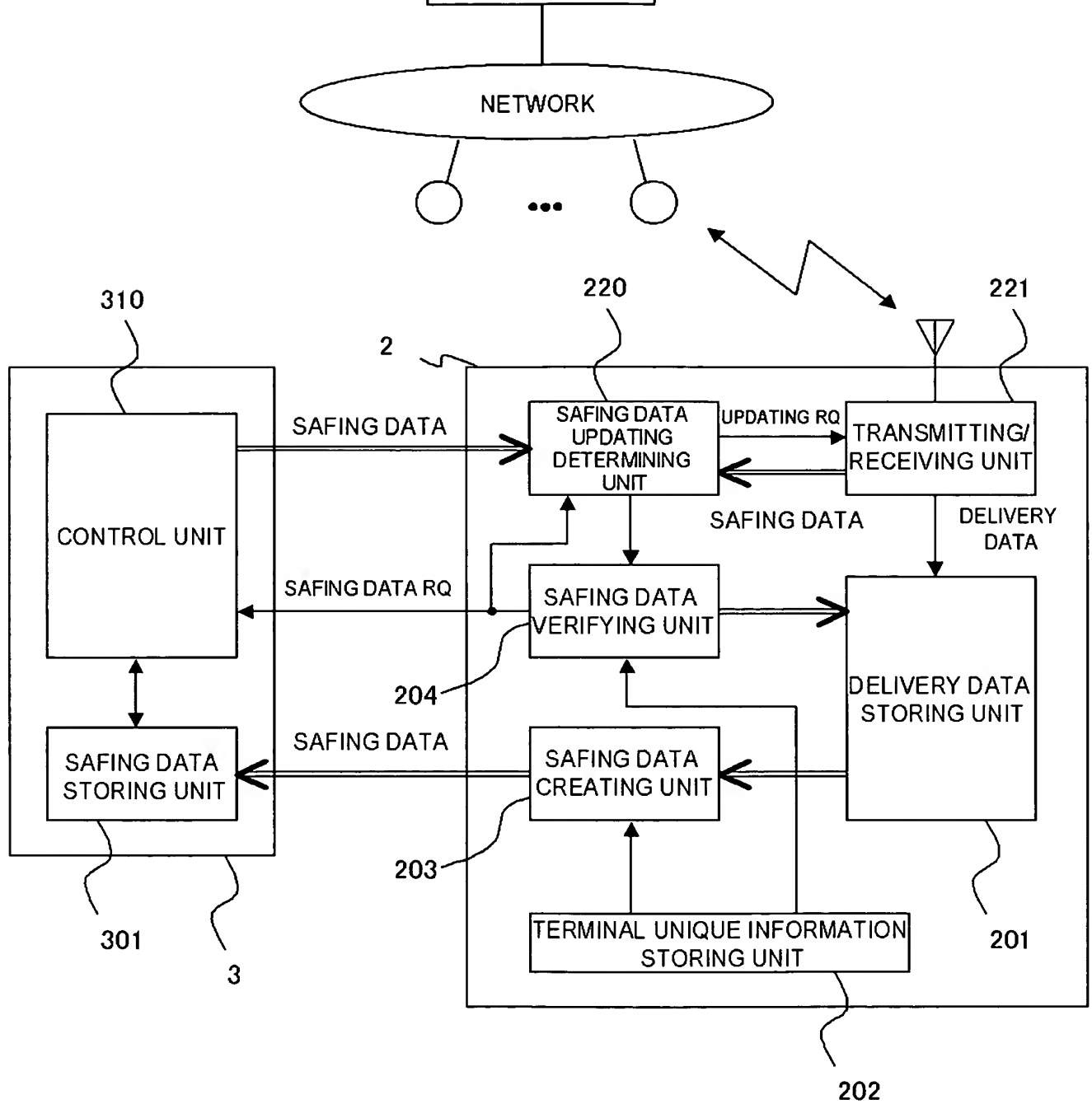


FIG. 19

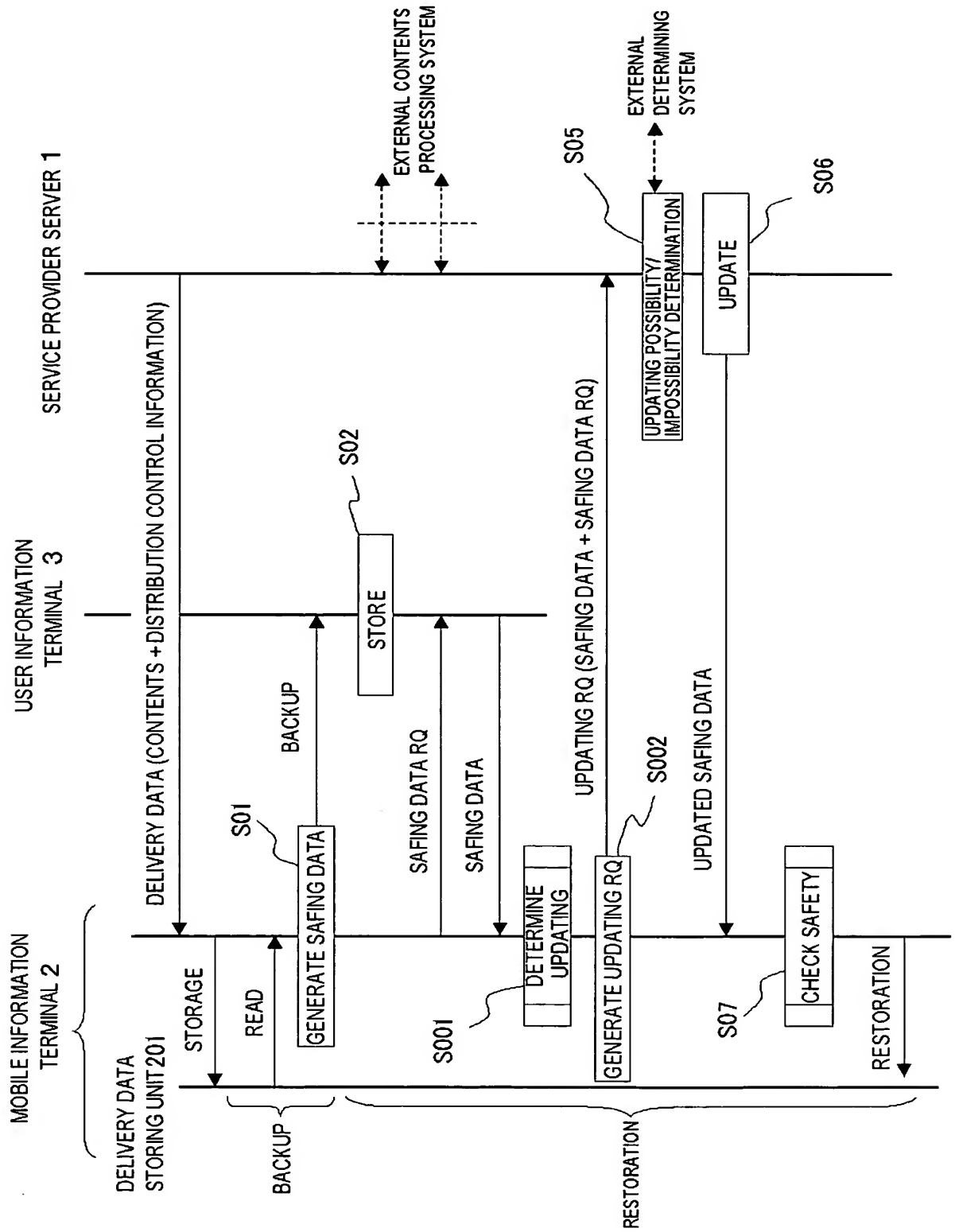


FIG. 20

DATA SAFETY CHECK

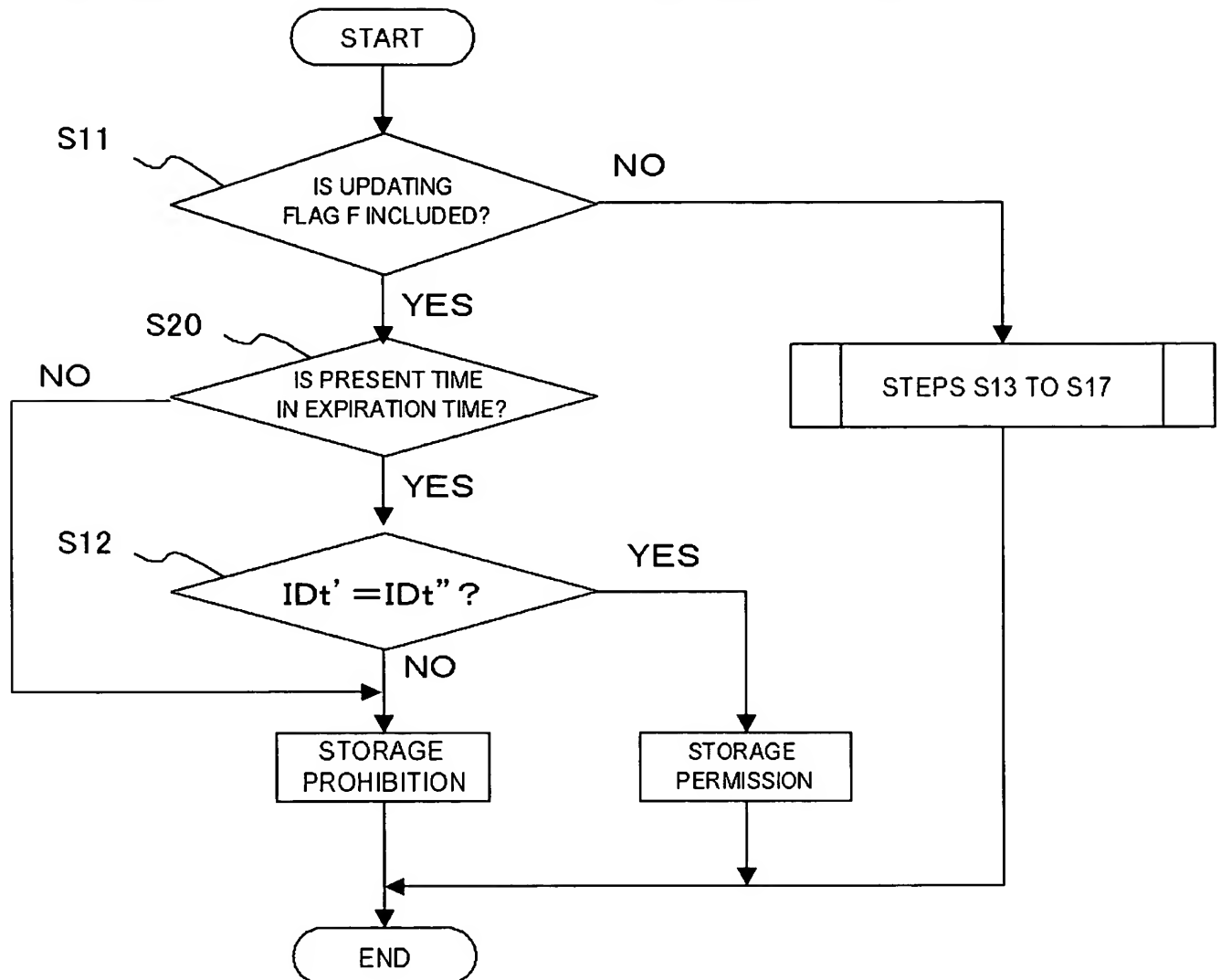



FIG. 21

SAFING DATA REQUEST



| |
|------------------------------------------------------|
| TERMINAL ID : ID_t' |
| HOLDER ID : ID_u' |
| CONTENTS ENCRYPTING KEY : ek' |
| CONTENTS ENCRYPTING KEY CERTIFICATION : c_{ek}' |
| RANDOM NUMBER r |

FIG. 22

DATA SAFETY CHECK

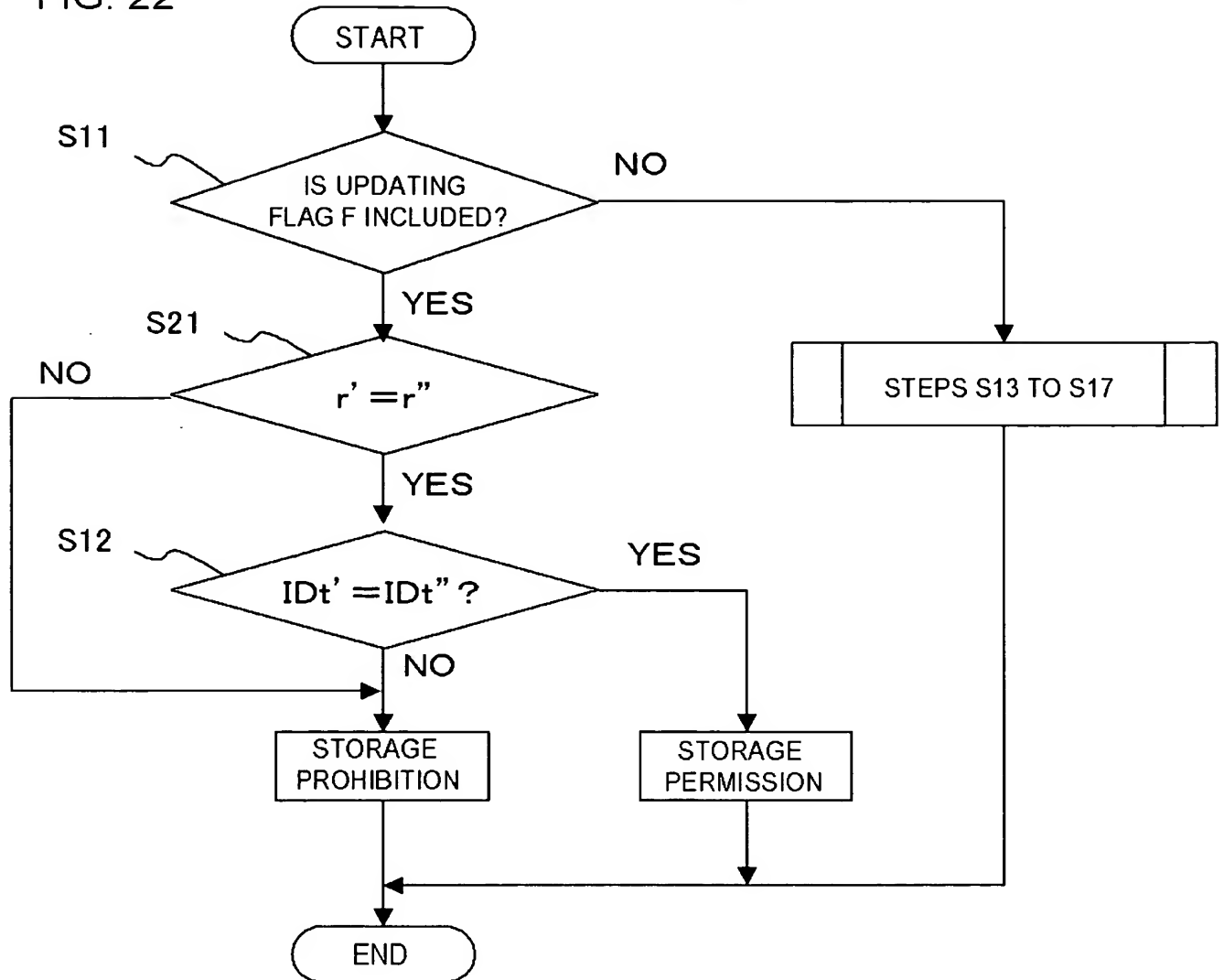


FIG. 23

```
enum RESULT {restoreDirect, restoreAfterServerUpdate, restoreFobiedden};

RESULT Check(          int terminal_id1,          int terminal_id2,
                    int user_id1,          int user_id2,          )
{
    // WHEN TERMINAL IDENTIFICATION INFORMATION IS IDENTICAL,
    // RESTORATION IS PERMITTED
    if (terminal_id1 == terminal_id2)
        return restoreDirect;

    // WHEN RESTORATION DATE IS FEBRUARY 14, 2004, AND WHEN USER ID IS IDENTICAL,
    // RESTORATION IS PERMITTED AFTER SERVER INQUIRY
    char currentDate[9];
    _strdate(currentDate);
    if (strcmp (currentDate, "02/14/04") == 0 && user_id1 == user_id2 )
        return restoreAfterServerUpdate;

    // RESTORATION IS NOT PERMITTED
    return restoreFobidden;
}
```